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**PATENT APPLICATION**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Michael NAHUM et al.

Application No.: 09/731,671

Examiner:

Filed: December 8, 2000

Docket No.: 106539

For: SYSTEM AND METHOD FOR HIGH-ACCURACY DISPLACEMENT  
DETERMINATION IN A CORRELATION BASED POSITION TRANSDUCER

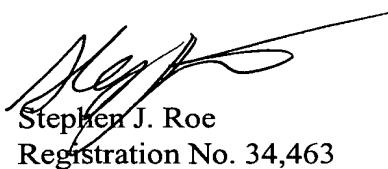
**LETTER TO THE OFFICIAL DRAFTSPERSON**

Director of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Please substitute the attached 16 sheets of formal drawings depicting Figures 1-20 for the corresponding drawings filed with the application. The attached drawings have been corrected pursuant to the Notice to File Corrected Application Papers dated February 21, 2001.

Respectfully submitted,



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Registration No. 34,463

SJR/jam

Date: April 2, 2001

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<b>DEPOSIT ACCOUNT USE AUTHORIZATION</b> Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461
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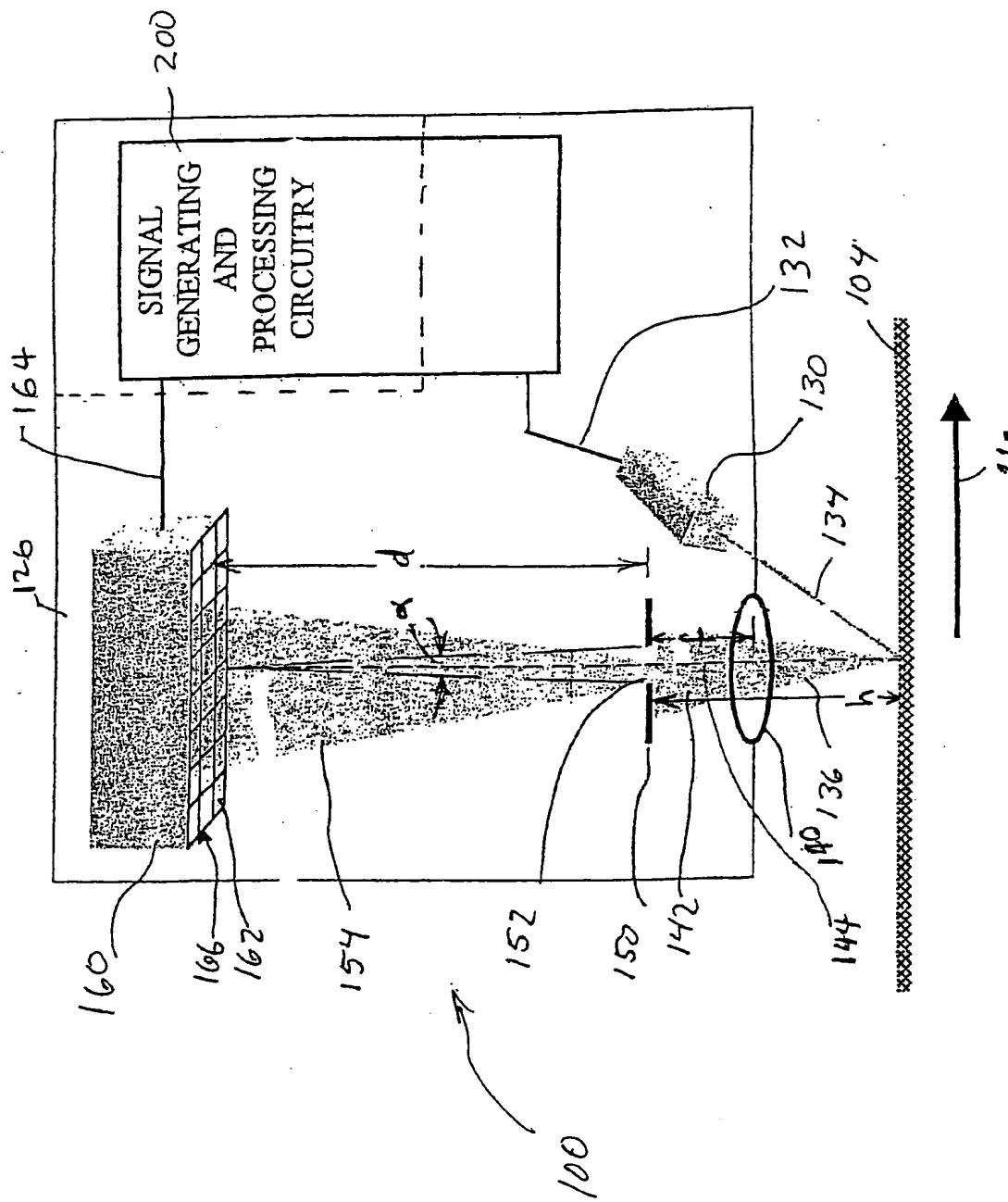


FIG. 1

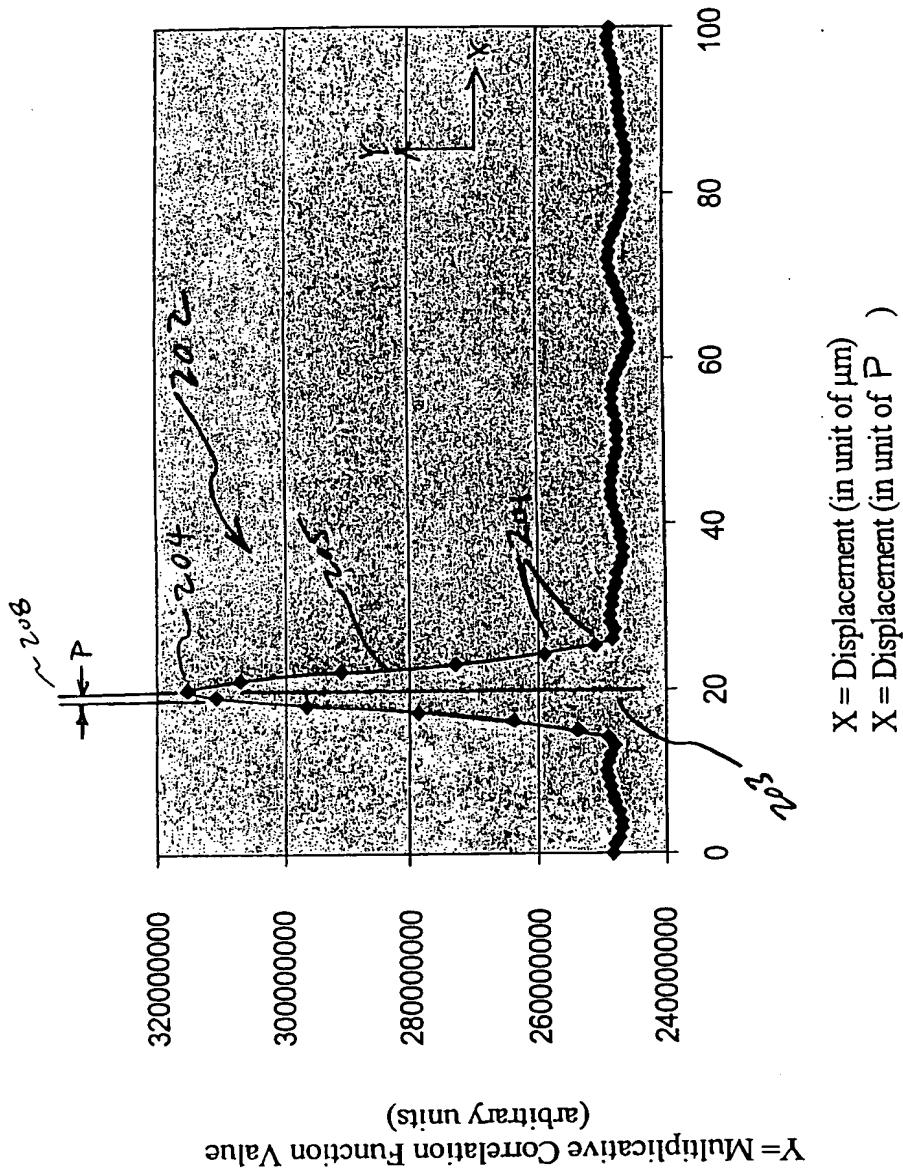


Fig. 2

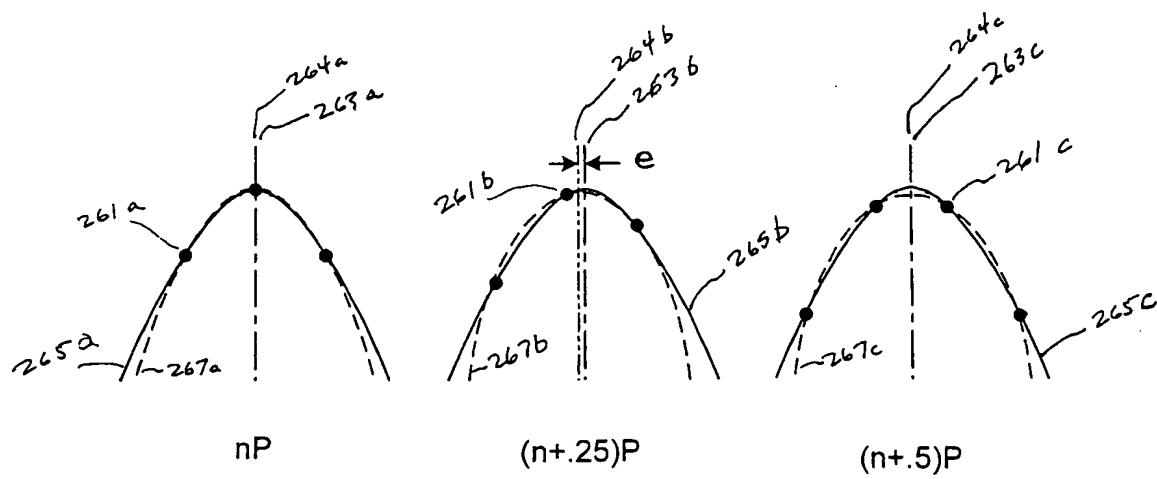


Fig. 3

Fig. 4

Fig. 5

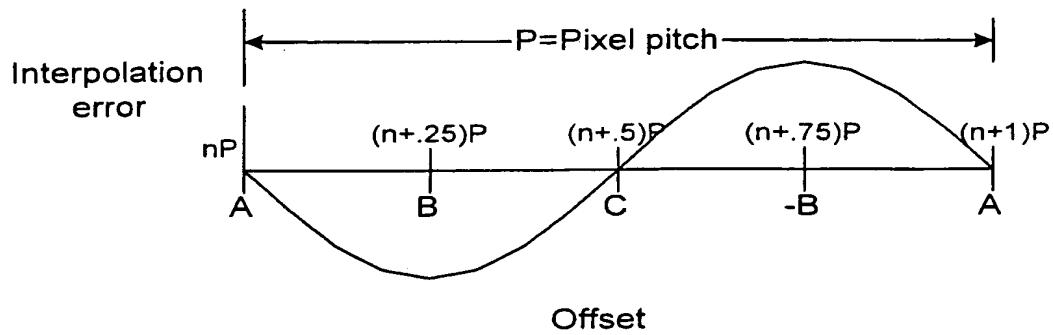


Fig. 6

202010 " FILE NAME

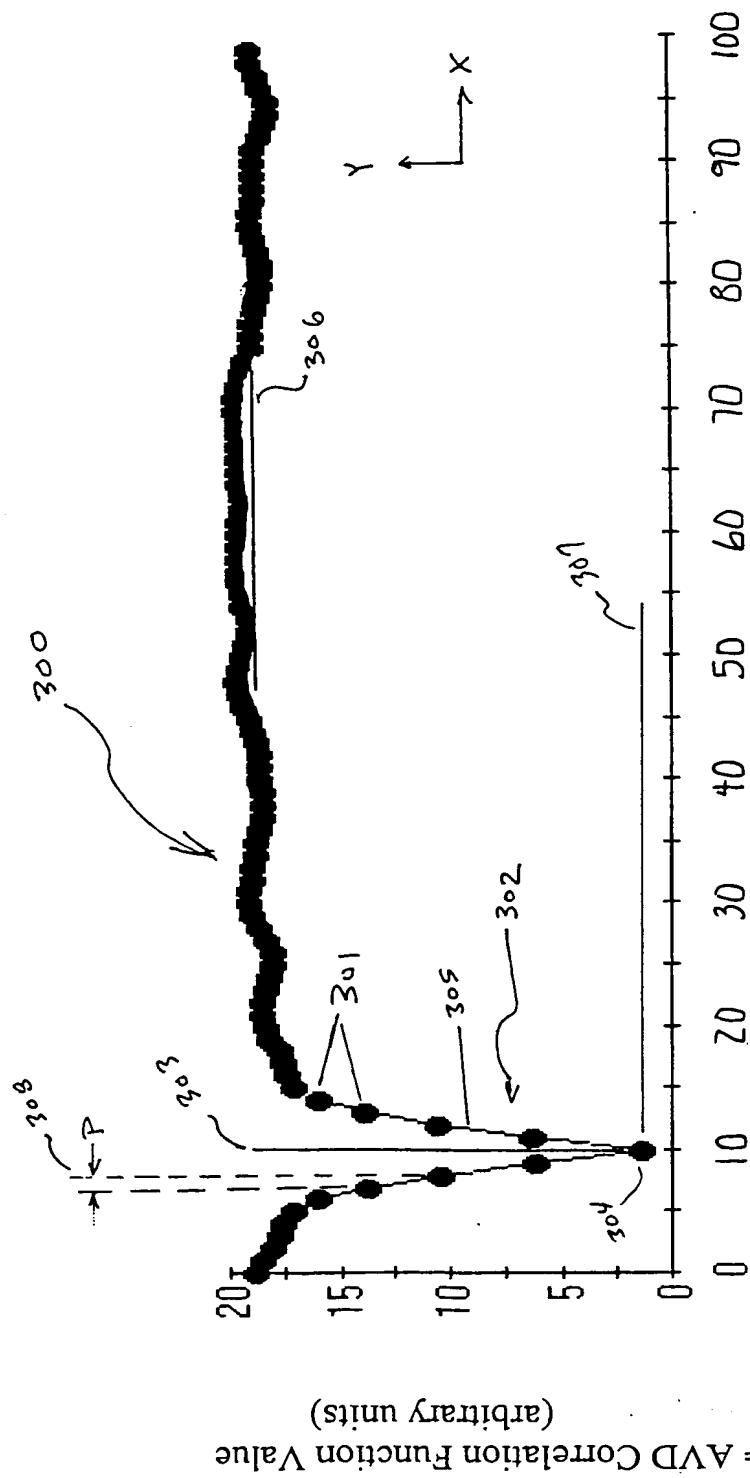


Fig. 7

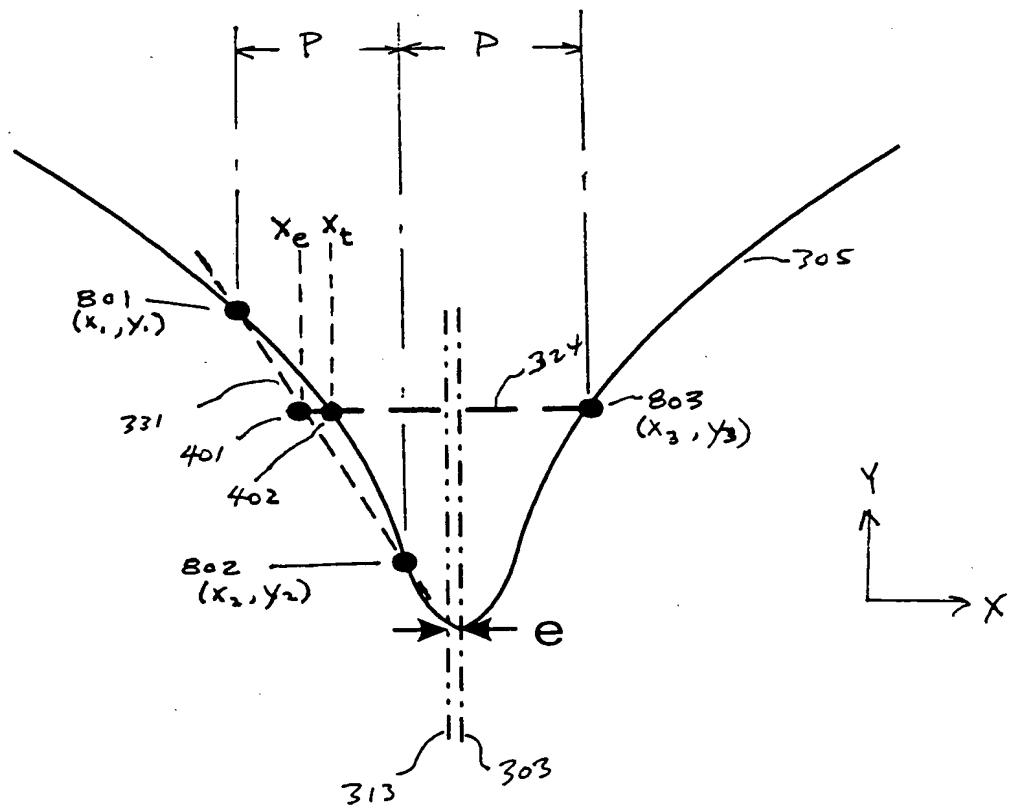


Fig. 8

**Sinusoidal compensation**

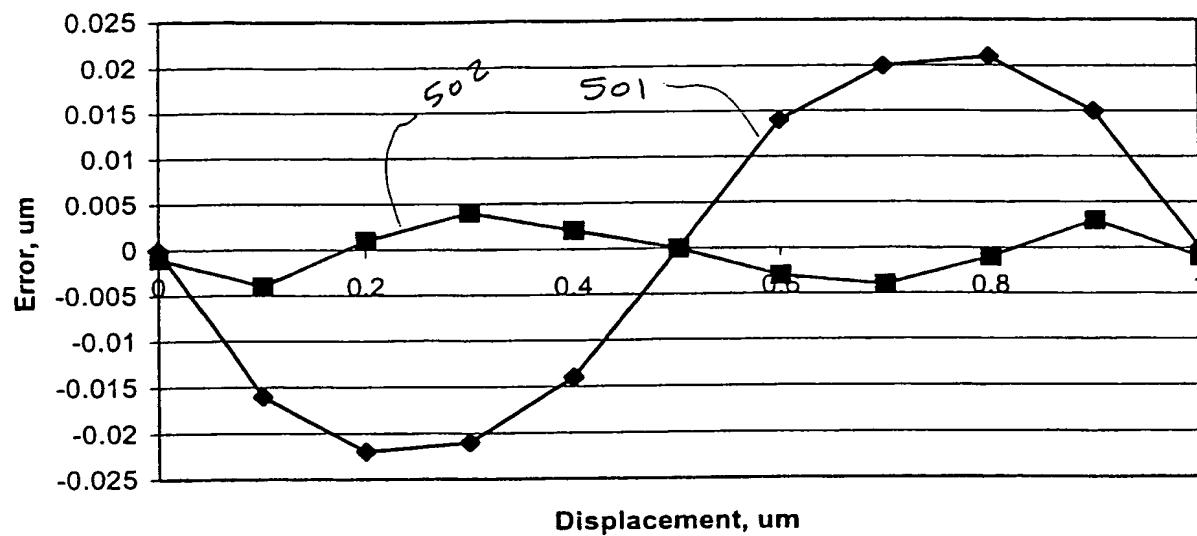


Fig. 9

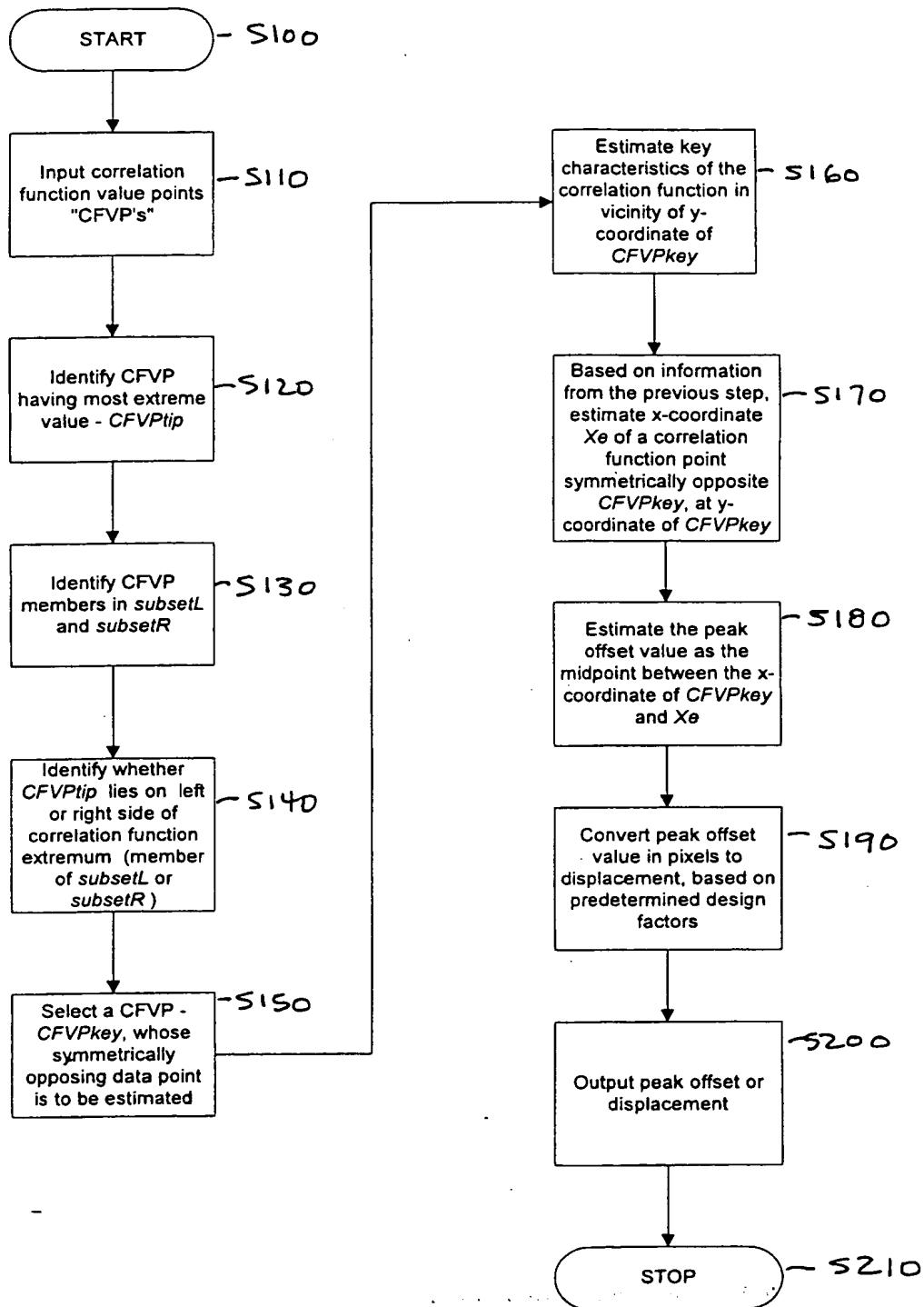


Fig. 10

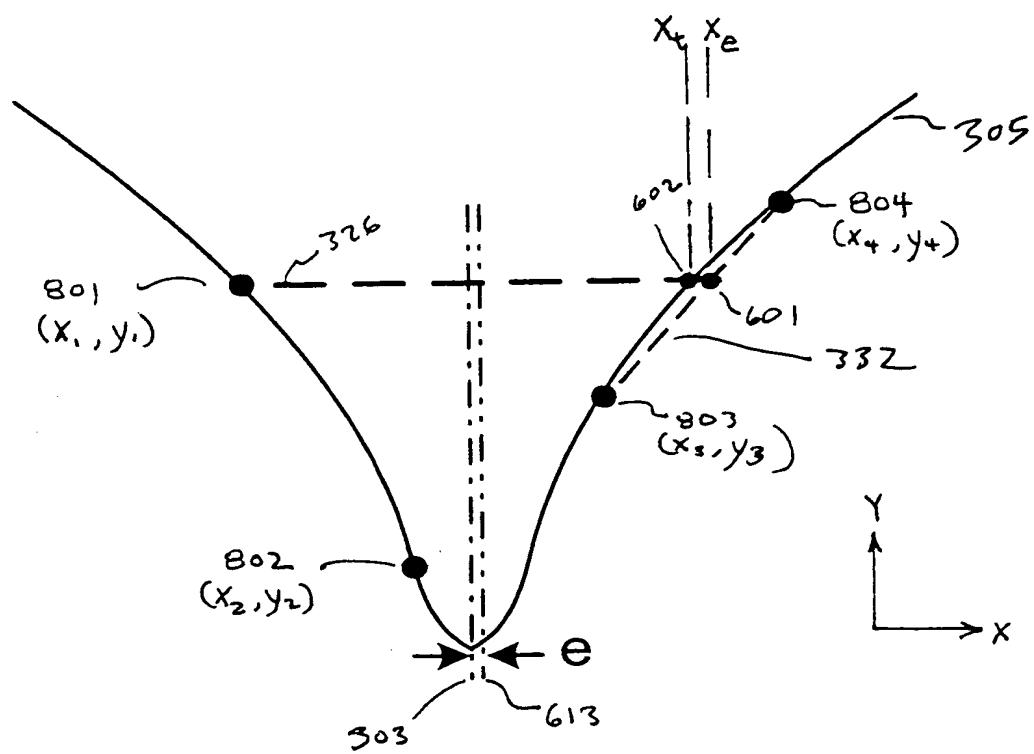


Fig. 11

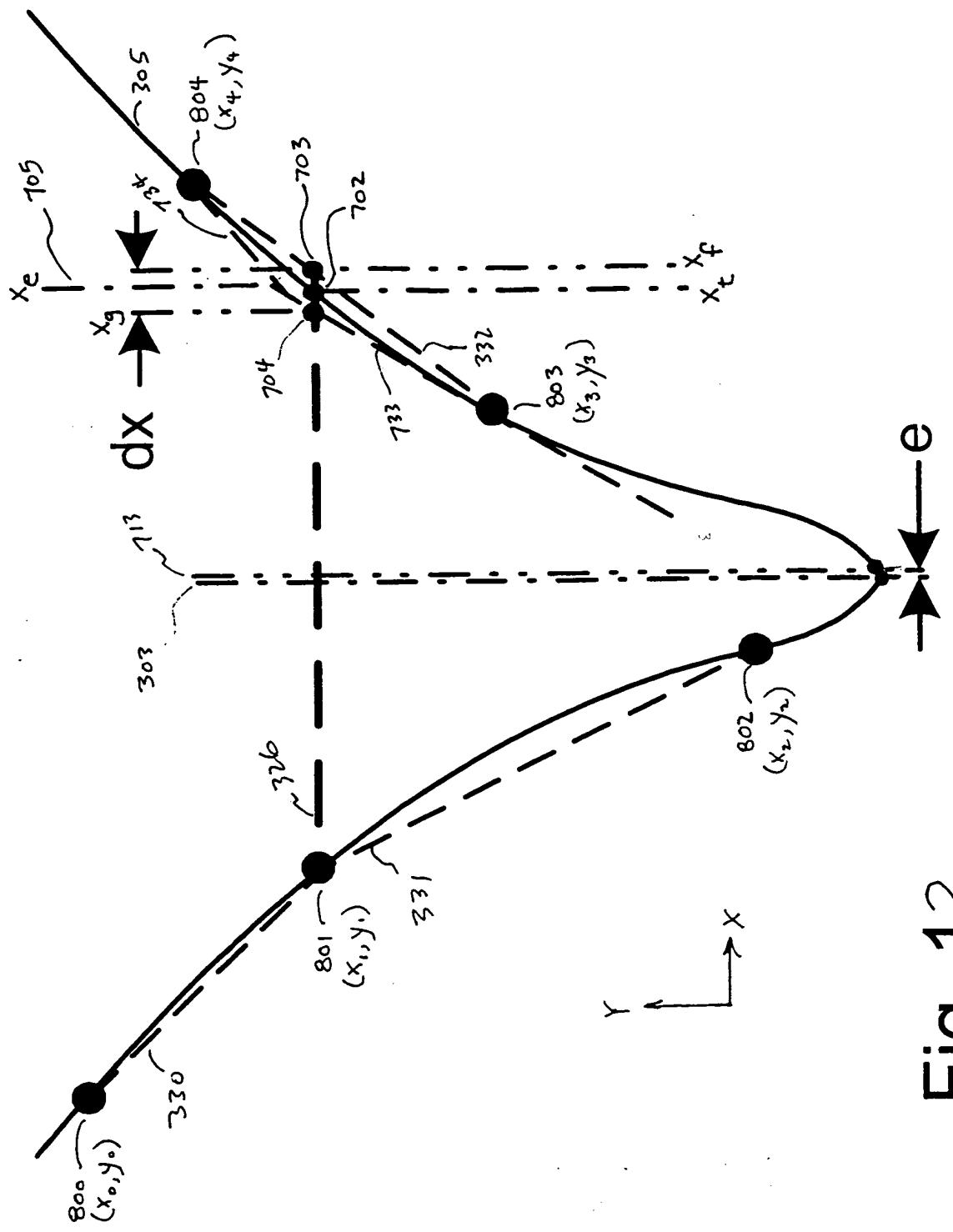


Fig. 12

Periodic errors, pinhole = 1.5 mm

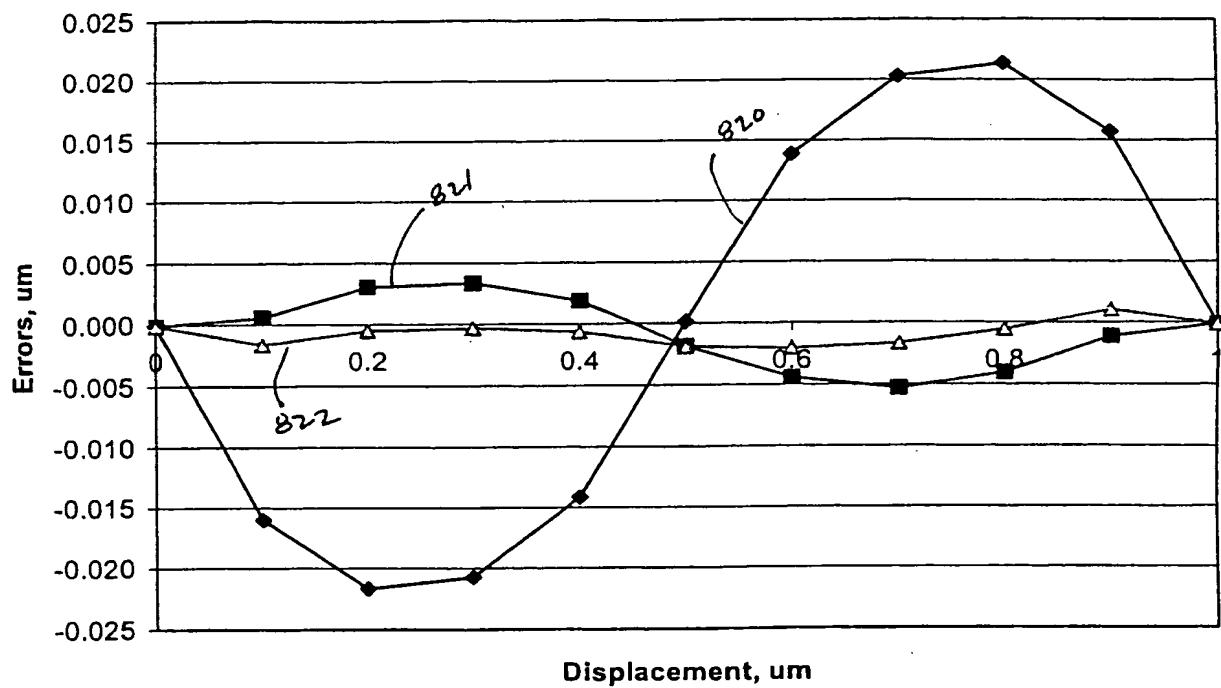


Fig. 13

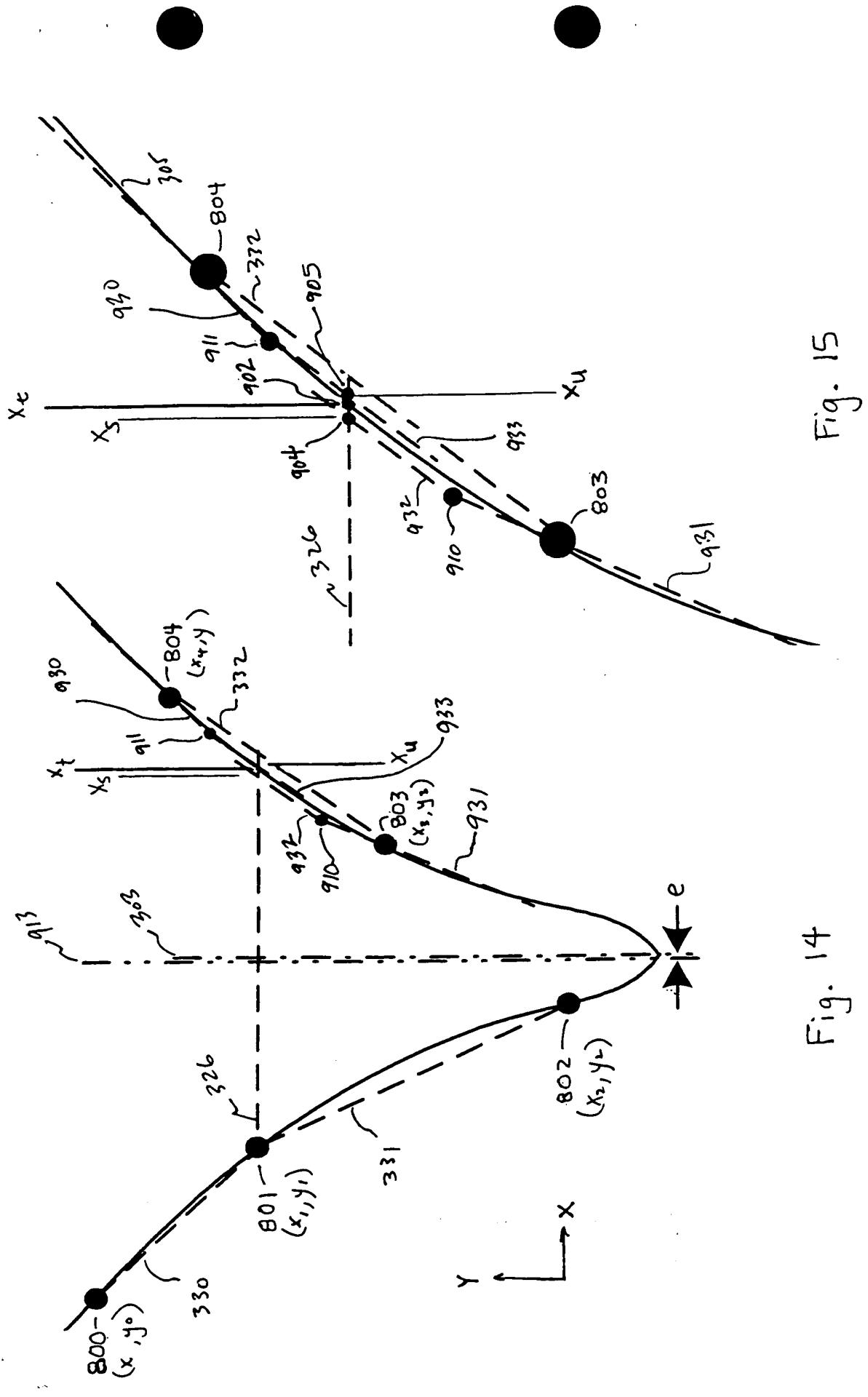


Fig. 14

Fig. 15

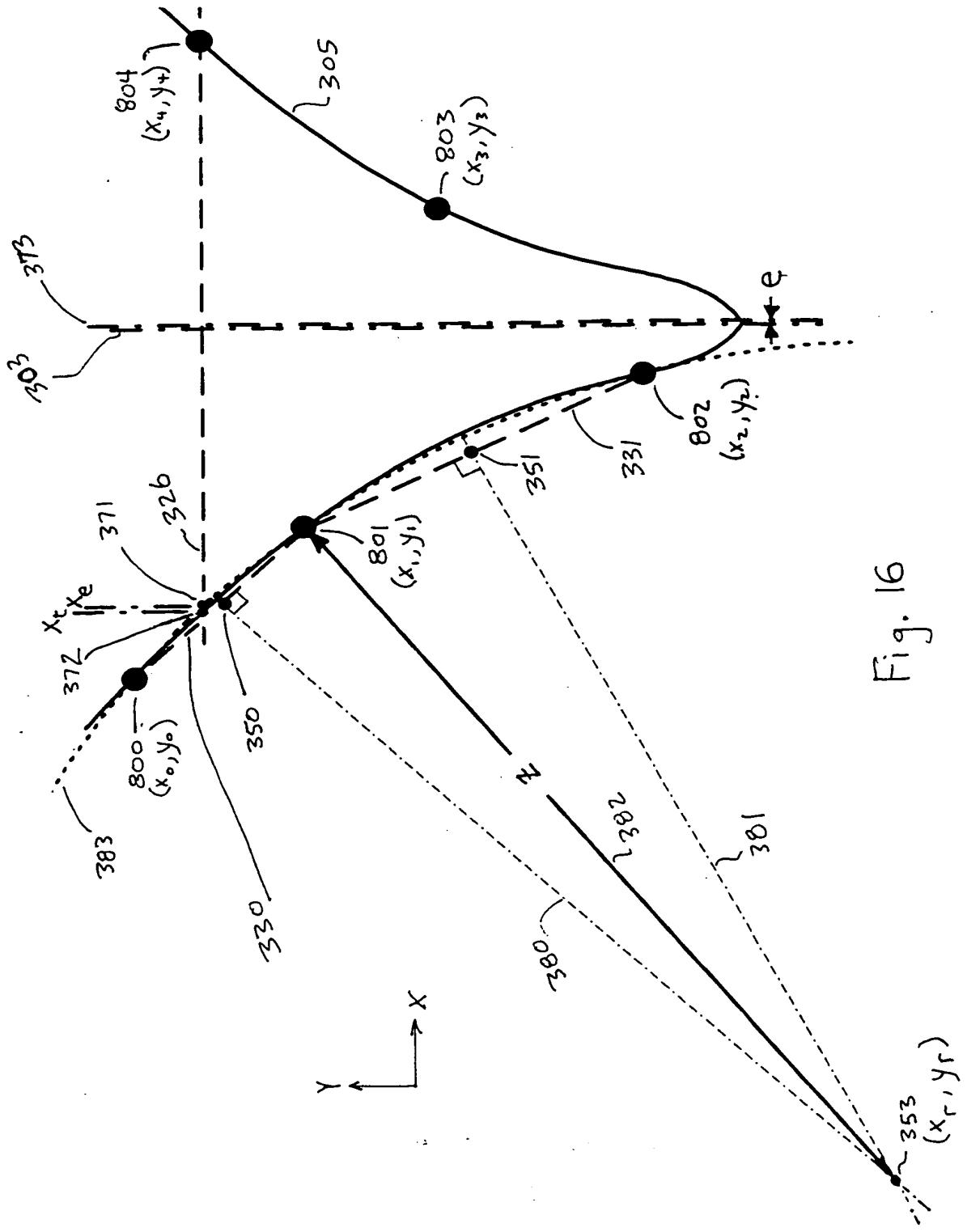


Fig. 16

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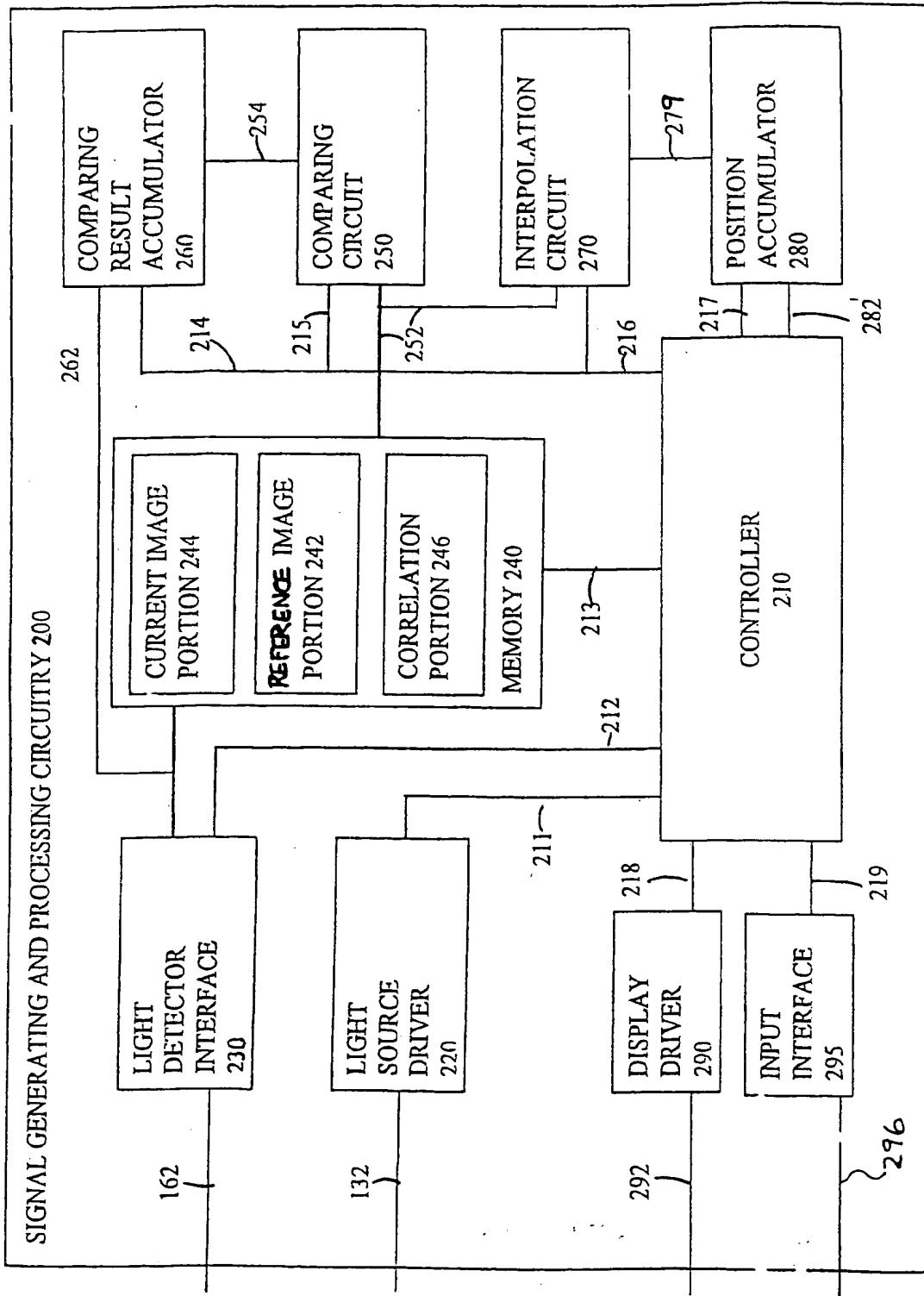


FIG. 17

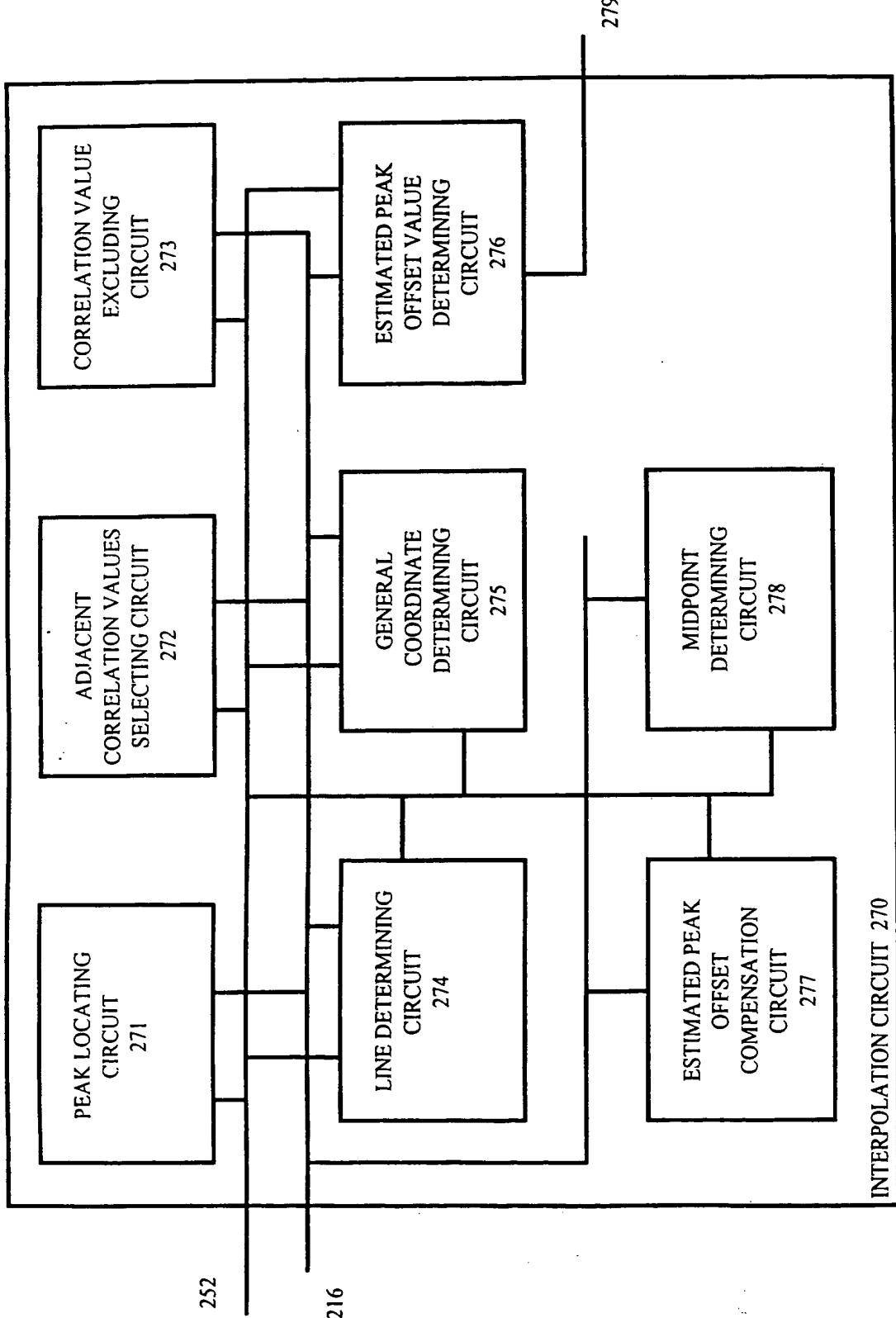


FIG. 18

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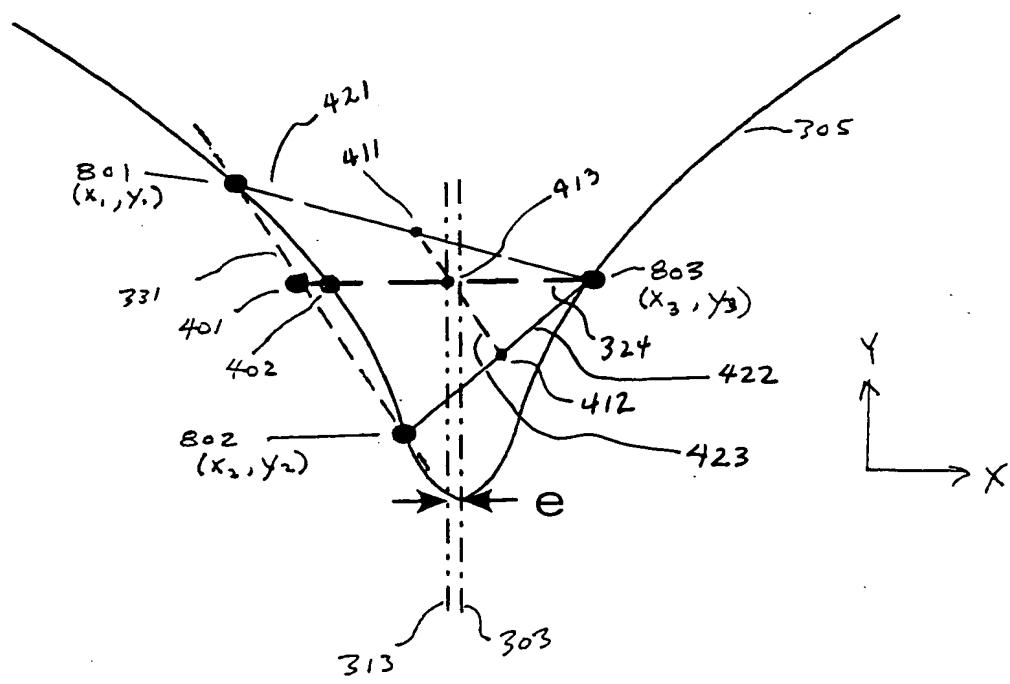


Fig. 19

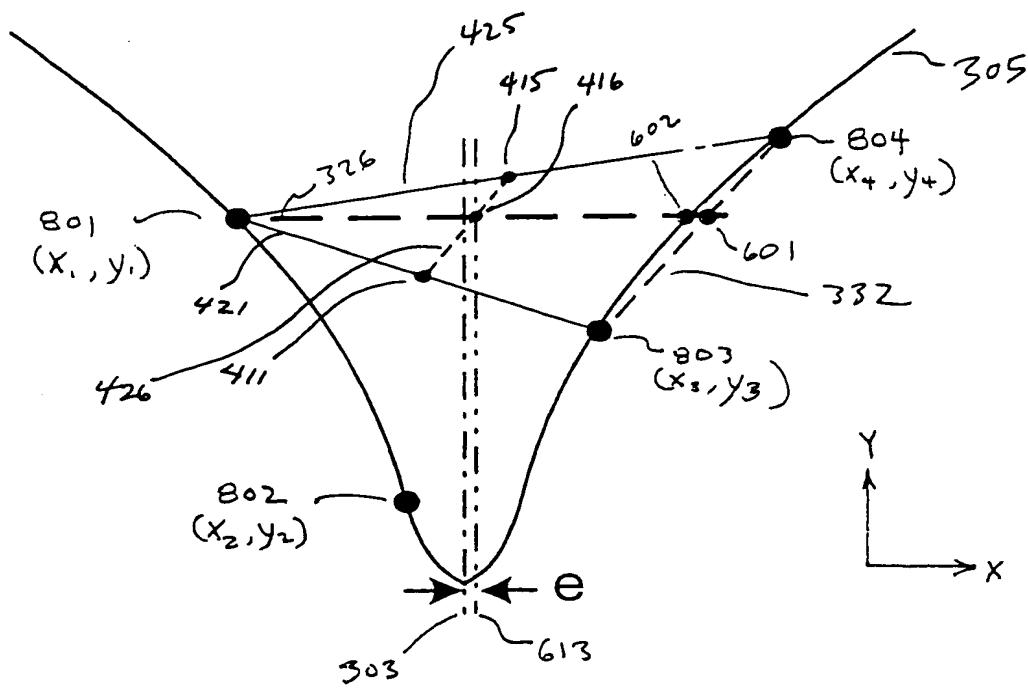


Fig. 20